Incubator 8000 IC/SC/NC
Technical Service Bulletin # 20

Re: **Modification of Analog PCB**

Date: August 17, 2000

Reference Doc: Following Service Bulletins from Dräger Medizintechnik GmbH:
- 6141.221 Incubator 8000 SC # 24, June 2000
- 6141.222 Incubator 8000 IC # 5, June 2000
- 6141.223 Incubator 8000 NC # 24, June 2000

Reason: Dräger Medizintechnik GmbH has released a modification to the Analog PCB.

Solution: Update of the Incubator with the following action:
- Installation of a modified service exchange Analog PCB.

In addition the following actions will be performed to bring field units up to the latest configuration (not all units affected):
- Installation of a new Software Version.
- Follow up validation of replacement of CPU Incubator PCB according to TSB Incubator 8000 IC/SC/NC # 12.
- Disconnection of the auxiliary fan on the Power Pack PCB according to TSB Incubator 8000 IC/SC/NC # 17.
- Retrofitting of 2 warning labels according to TSB Incubator 8000 IC/SC/NC # 19.

Devices affected: All units Incubator 8000 IC, Incubator 8000 SC, and Incubator 8000 NC shipped prior to July 2000 not labeled with "New Sensor Technology" on the keypad.

When: As soon as possible or latest at next Preventive Maintenance. Our goal is to complete this action by mid of November 2000 latest.

Reporting: To Dräger Medical, Inc. by Fax 1-215-721-5789. A Feedback Form is included in the Conversion/Installation Instructions.

Additional Info 1: **Two different strategies are planned for this action:**

Please note for the first strategy:
Until the end of September 2000 we recommend to use strategy 1 due to the limited number of available repair kits for units without ThermoMonitoring.

1. **Returning of the complete Control Unit for an update to the In-House Service in Telford.**

   Removal and installation can be done by TSRs and trained Biomeds.

   For removal of the Control Unit use the instructions in the document "Skin-Temperature Measurement Conversion Instructions (Incubator 8000 IC/SC/NC)", see section 1.2, step 1 to 10 (pages 5 to 7).

   If you cannot provide an adequate shipping box please contact Customer Service at 1 800 4 DRAGER and ask for the shipping box P/N SD4. We will send you this box free of charge.

   Please call Customer Service at 1 800 4 DRAGER and ask for a RMA number (RMA = Return Material Authorization). Send the Electronic Unit with RMA # to:

   Dräger Service
   3124 Commerce Drive
   Telford, PA 18969

   Please ship with billing to Dräger Service.

   The modified Control Unit will be sent back in average within 4 working days with all necessary instructions for the installation.

   In addition we will replace the battery P/N 83 01 856 in the Control Unit free of charge.

   Please do not return all Control Units from one hospital at once. We recommend sending back 1/4 of quantity at one time.

2. **Update of the unit with a "Repair kit " in the field.**

   The update can be done by TSRs and trained Biomeds.
   Please return all removed parts as soon as possible with RMA

number (RMA = Return Material Authorization) to:

Dräger Service
3124 Commerce Drive
Telford, PA 18969

Please ship via next day with billing to Dräger Service.

Note: If no RMA # is available please call Customer Service at 1 800 4 DRAGER.

Additional Info 2: The following instructions and documents will be delivered with the modified Control Units or with the Repair Kits:

- For Strategy 1 (Update of Control Units):
  Installation Instructions Control Unit P/N 41 16 708.

- For Strategy 2 (Installation of Repair Kits):
  Conversion Instructions Analog PCB P/N 41 16 707.

Additional Info 3: Return all affected spare parts in the field immediately to the in-house Service in Telford for reworking:

- PCB Analog	P/N 82 00 920
- Service Exchange PCB Analog	P/N SE 82 00 920
- PCB Analog ThermoMonitoring	P/N 82 90 680
- Service Exchange PCB Analog TM	P/N SE 82 90 680
- Kit ThermoMonitoring	P/N 2M 21 867
- Control Unit Incubator 8000 IC with TM	P/N 2M 21 680
- SE Control Unit Incubator 8000 IC with TM	P/N SE 2M 21 680
- SE Control Unit Incubator 8000 IC with TM	P/N 2M 21 704
- Control Unit Incubator 8000 IC w/o TM	P/N 82 90 443
- SE Control Unit Incubator 8000 IC w/o TM	P/N 82 90 605
- Control Unit Incubator 8000 SC/NC w/o TM	P/N 82 90 441
- SE Control Unit Incubator 8000 SC/NC w/o TM	P/N 82 90 603

Please return all removed parts as soon as possible with RMA number (RMA = Return Material Authorization) for a modification to:

Dräger Service
3124 Commerce Drive
Telford, PA 18969

Please ship with billing to Dräger Service.

Note: If no RMA # is available please call Customer Service at 1 800 4 DRAGER.

Additional Info 4: All installed Analog PCBs will be covered by one year warranty from the day of installation.

Cost: Free of charge.

Ordering Info: The following kits are available for strategy 2:

- "Repair kit 8000 IC, SW21.n and TM" P/N 4116706-001
  Info: On units Incubator 8000 IC with ThermoMonitoring the sockets for the two skin temperature sensors are located on the left side of the blue housing of the Incubator.

- "Repair kit 8000 IC, SW20.n w/o TM" P/N 4116706-002
  Info: On units Incubator 8000 IC w/o ThermoMonitoring and installed SW 20.n the socket for the skin temperature sensor is located in the sensor module.

- "Repair kit 8000 SC/NC, SW10.n w/o TM" P/N 4116706-003
  Info: On units Incubator 8000 SC or Incubator 8000 NC w/o ThermoMonitoring and installed SW 10.n the socket for the skin temperature sensor is located on the backside of the unit.

- "Repair kit 8000 SC, SW11.n w/o TM" P/N 4116706-004
  Info: On units Incubator 8000 SC w/o ThermoMonitoring and installed SW 11.n the socket for one skin temperature sensors is located on the left side of the blue housing of the Incubator.

If the kits are ordered by Customer:
Please call Customer Service at 1 800 4 DRAGER and ask in addition for a RMA number (RMA = Return Material Authorization). This number is necessary for returning the parts. Please return all removed parts with RMA number as soon as possible to:

Dräger Service
3124 Commerce Drive
Telford, PA 18969

Please ship via next day with billing to Dräger Service.

Distribution: Dräger Service Personnel, Authorized Service Organizations, and trained hospital technicians for Incubator 8000 IC/SC/NC.

If you have any questions, please contact Technical Support by phone at 1-800-543-5047 or by fax at 1-215-721-5789.

Dräger Medical, Inc.
Technical Product Manager